

REGENESIS

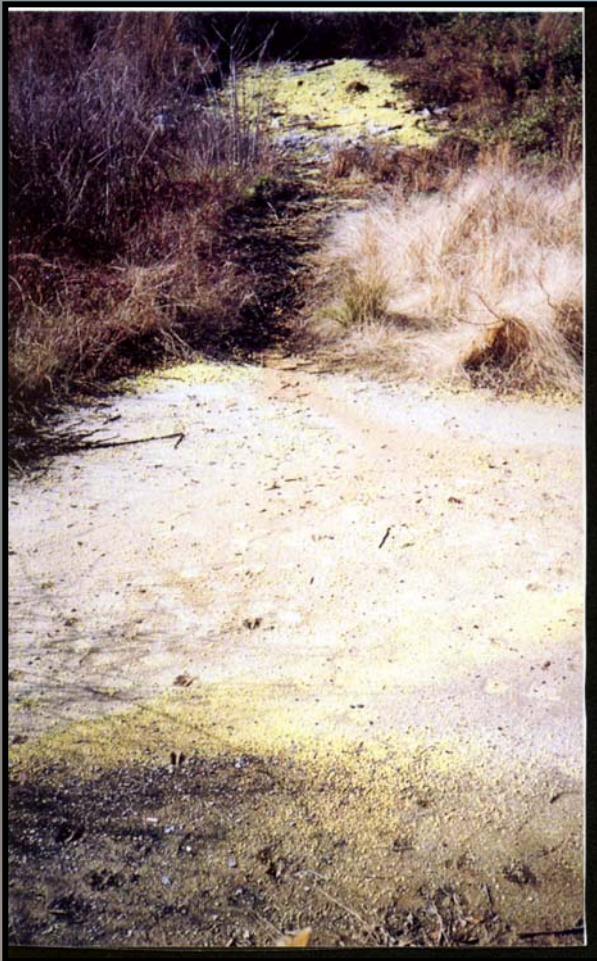


Environmental Contaminations

October, 1990 DHEC ordered current owner to remove the sulfur left by IMC



**IMC returned to cleanup the sulfur shown the previous photo,
but found their old acid plant buried underneath the sulfur**



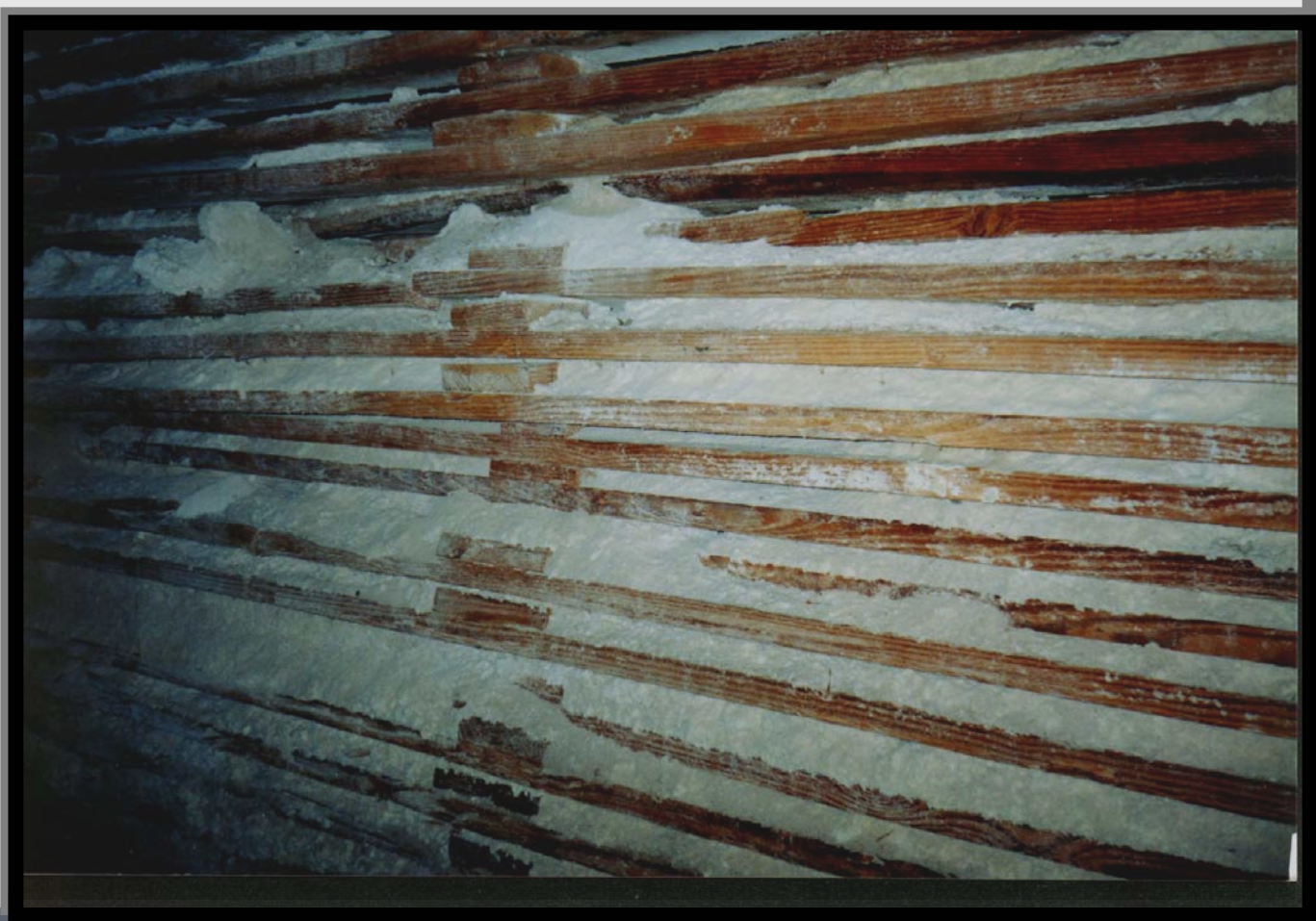
20 tons of sulfur was discovered underneath the acid plant, less than 50 feet from Fairforest Creek



Streams that flowed off of the IMC site into Fairforest Creek



During the EPA investigation, it was determined that 48 tons of super phosphate fertilizer had been left in the facility, along with underground storage tanks still containing 90 gallons of fuel oil.





In 1995 the EPA discovered the site was listed as an operational textile storage warehouse.

In 1986 the facility was closed, and given a “Clean Bill of Closure” ...

**The Arkwright landfill was discovered by the EPA in 1998.
According the SC DHEC records, the landfill did not exist.**



55 gallon drums dumped between 1958-1972 contained unknown substances



Trees in the dump couldn't root because of the content of the trash debris



While the EPA was pulling random test pits, an area was found containing medical waste and hypodermic needles from the hospital.



Community and Public Hearings

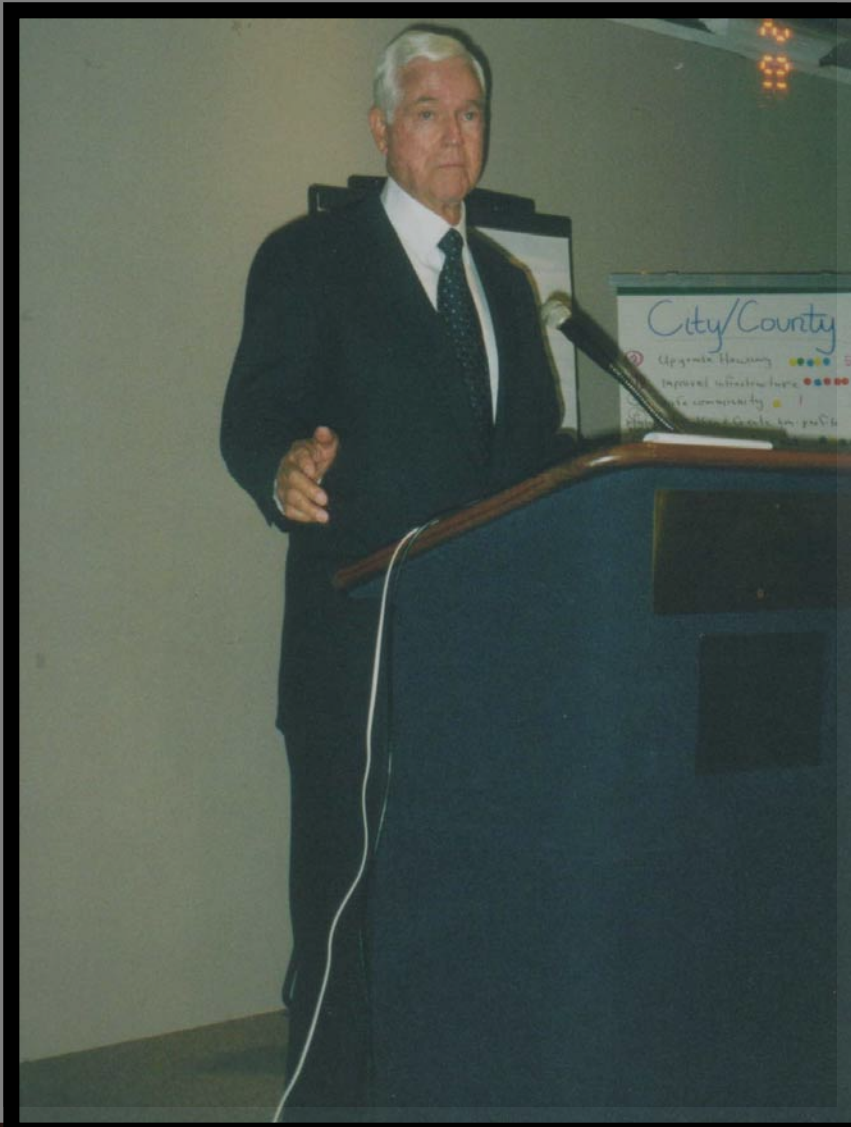
In 1998 the Arkwright Community addresses landfill issues with the City Council



The same year, a series of community workshops were organized.

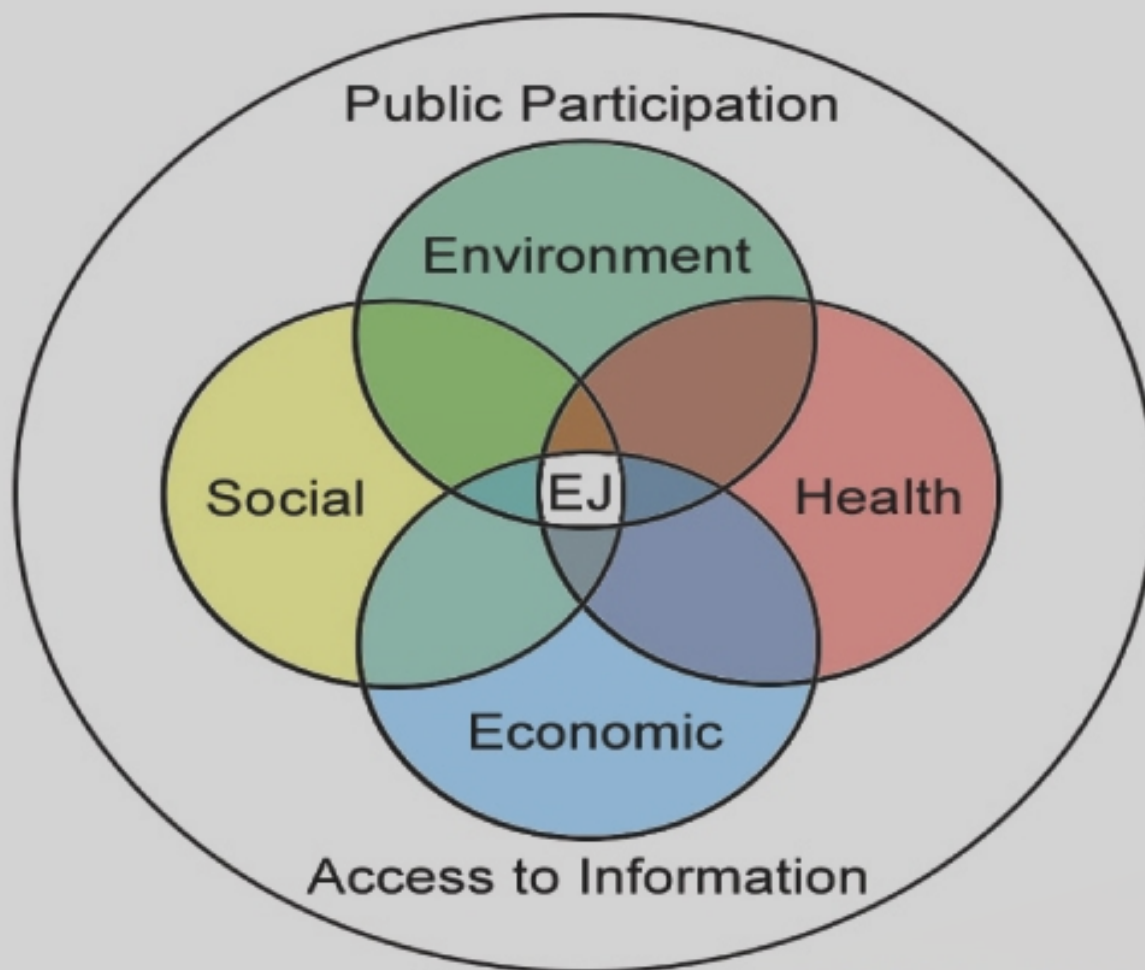


Political Support



In 1998 Senator Hollings requested an investigation of the IMC site.

Indicators of Healthy and Sustainable Communities



ISSUES

Environmental:

Two Superfund Sites
IMC Global
Arkwright Dump
Multiple Brownfield Sites

Health:

Concerns of Abnormal/High
Disease Incidence
Lack of Health Care

Economic:

Lack of Jobs
Lack of Transportation Access
Lack of Business Development
Lack of Retail Establishments

Social:

Crime
Poor Housing
Lack of Green Space
Lack of Recreational Facilities
Lack of Community Involvement

Building Community Support



Mediated Dialogue Meetings



Housing



**Existing housing conditions
in the Arkwright**



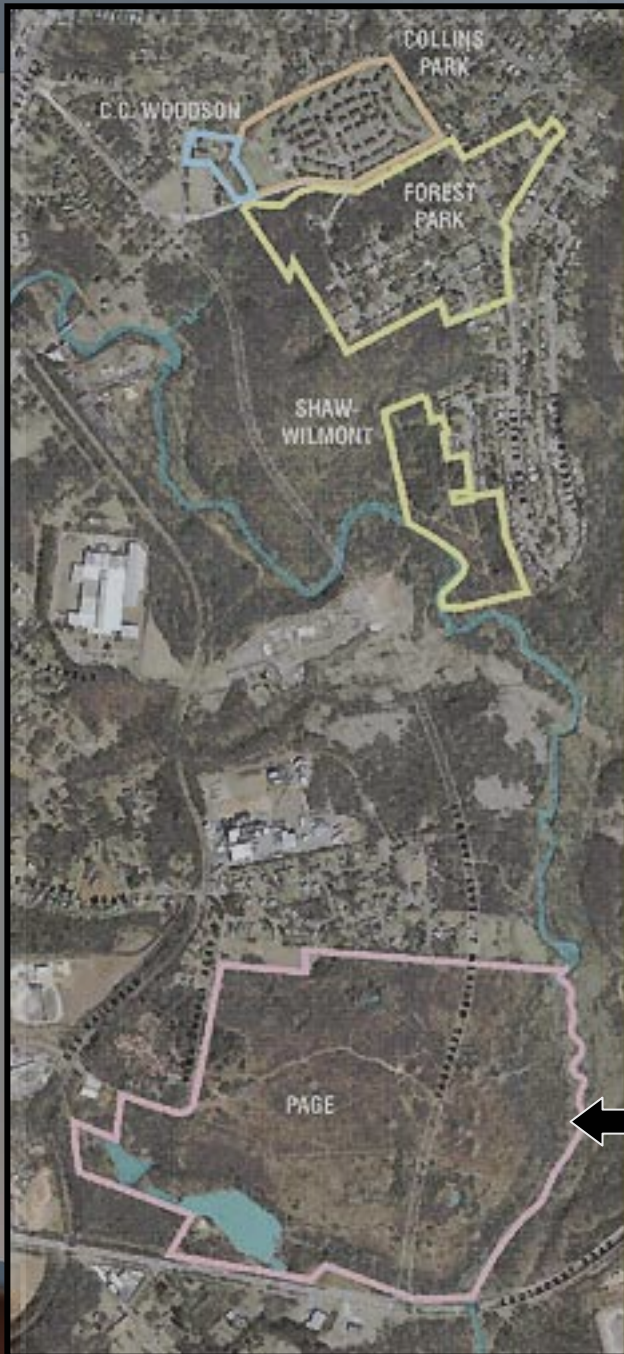


Arkwright Mill Village Housing



We have a vision for a better, healthier community.





**Collins Park Dedication June 14, 2007
(formerly Phyllis Goins)**

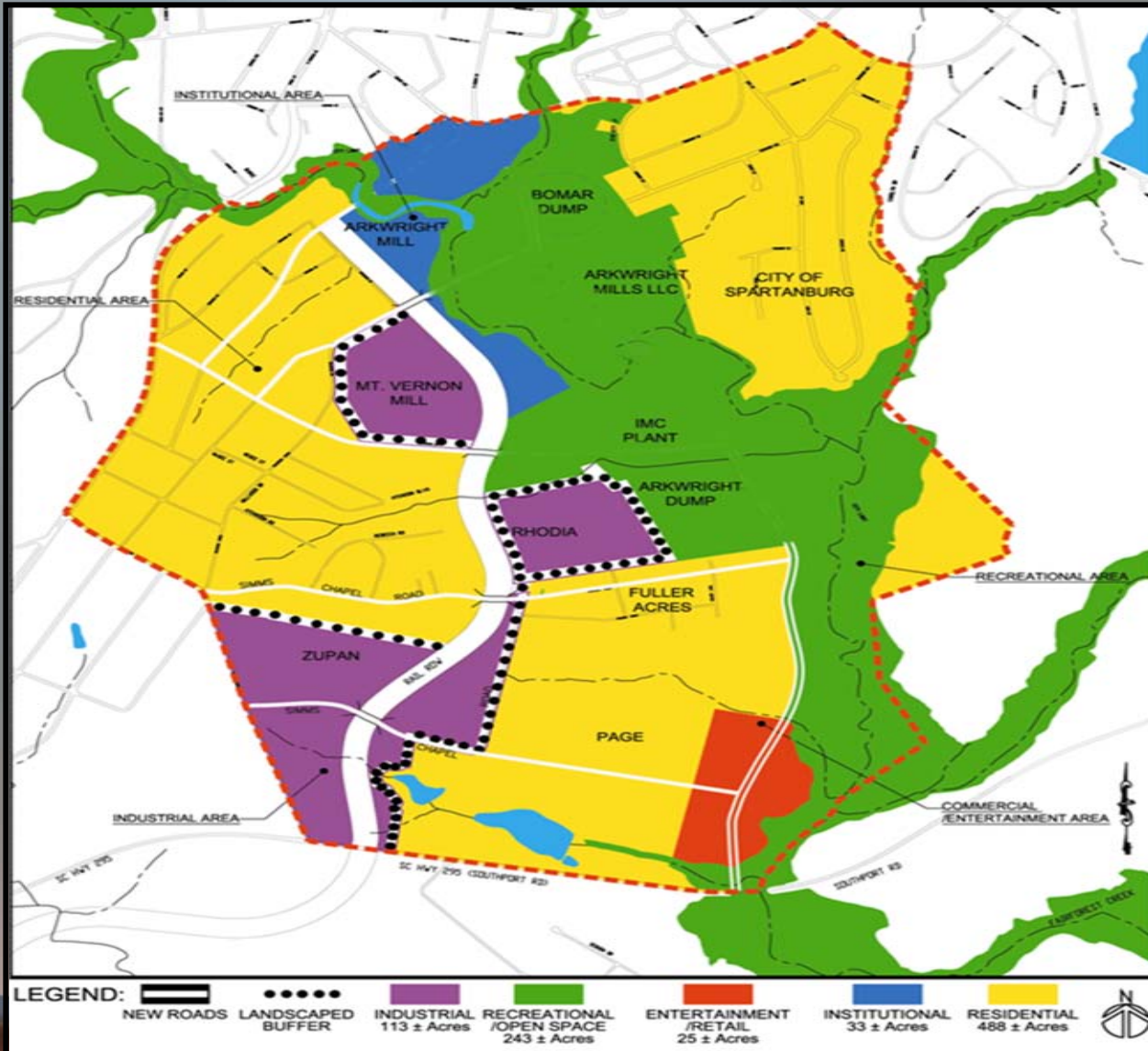
**Shaw Wilmont
(Home Ownership)**

Page Property Planning



Transportation

Arkwright Roadway & Emergency Access



Building Livable Communities



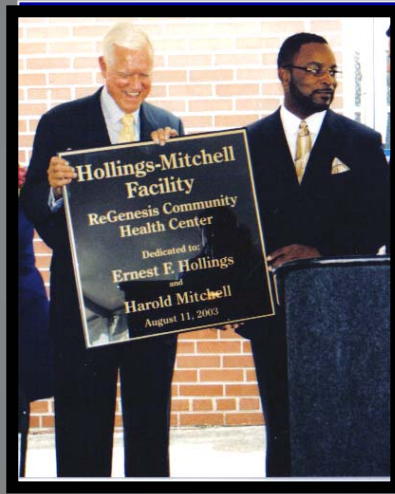
Shaw Wilmont

Collins Park

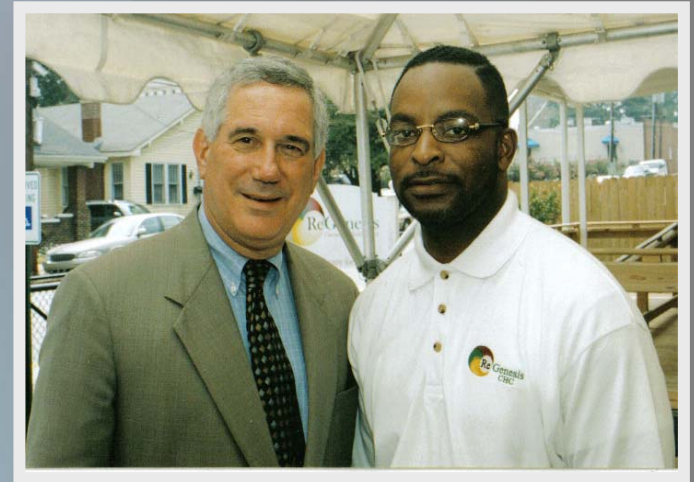
**We're renewing communities
& building new neighborhoods
with Hope VI (HUD) funding;
and creating fair & affordable
home ownership opportunities.**



Health



**Senator Fritz Hollings &
Harold Mitchell
at the Grand Opening
of ReGenesis CHC**



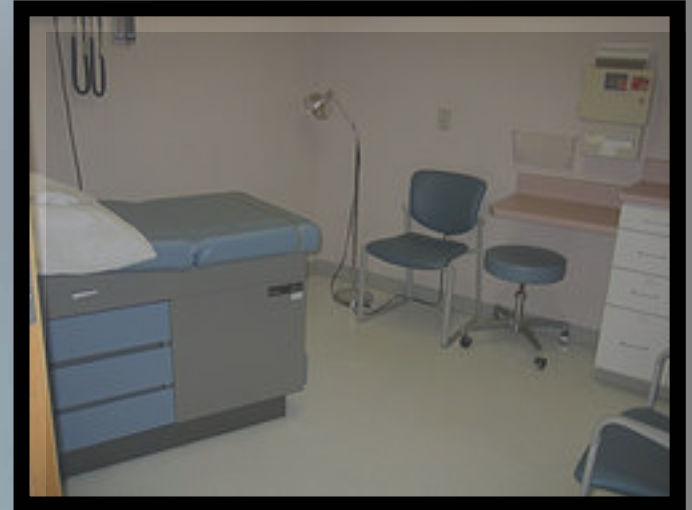
Mayor Barnett & Harold Mitchell



Our First Community Health Center Location



**The current ReGenesis Community Health Center, 750 S. Church St.,
Spartanburg in Spartanburg Regional Health System building**



Health Center Initiatives:

- **Small Smiles Pediatric Dental**
- **Senior Health Care**
- **Health Education**
- **Pharmacy**
- **Homeless Health Care**
- **Cherokee and Union Expansion**
- **Diabetic Health Educator**
- **Breast Health Nurse Clinician**

Education:

University of South Carolina Upstate Community Outreach Partnership Center, working with the ReGenesis Community Health Center:

To pursue funding that encourages behavioral and social science research on the causes and solutions to health and disabilities disparities in the U. S. population. Health disparities between, on the one hand, racial/ethnic populations, lower socioeconomic classes, and rural residents and, on the other hand, the overall U.S. population are major public health concerns.

Emphasis is placed on research in and among three broad areas of action:

- 1) Public policy,
- 2) health care, and
- 3) disease/disability prevention.

USC Upstate COPC is located at 325 S. Church St., Spartanburg, SC



Community-based Environmental Epidemiologic Research Near Urban Brownfield Sites: The Spartanburg, SC Story

John E. Vena Ph.D., George Newby., and Harold Mitchell

University of South Carolina, Arnold School of Public Health and ReGenesis



The ReGenesis Community, Health, Environmental, Educational and Research Connection (RCHERC) is a community, environmental injustice, health, education and research partnership. The partners include health care providers at the ReGenesis Community Health Center (CHC), environmental health scientists at the University of South Carolina (USC) and the SC Department of Health and Environmental Control (DHEC), as well as educators/researchers at the University of South Carolina Spartanburg Campus (USCS).

The RCHERC partnership was forged to create a working alliance between healthcare professionals, researchers in environmental health and citizens affected by environmental hazards in Spartanburg, SC. A critical element of the partnership is to provide connectivity and opportunities for collaboration between impacted citizens, public health, environmental scientists, educators and community. The RCHERC model demonstrates the effectiveness of a positive coalition in tackling public health and environmental issues in Upstate South Carolina.

First year objectives

- 1) Building the partnership
- 2) studying and documenting potential exposure pathways and evaluating health concerns in the target population,
- 3) setting the research agenda to meet the needs and concerns of the community partners and
- 4) development and implementation of community education about environmental and occupational health.

The partnership will establish four working committees:
Partnership Steering Committee
Communication Committee
Implementation Committee
Evaluation Committee

Task 1 Establishment of a community-based steering committee

The steering committee will provide guidance in the design of the assessment process (Task 2), of the education and communication strategies and the research plan (Tasks 3 and 4), and of the project evaluation (Task 5). The steering committee will also make recommendations for future activities of the partnership (Task 6).

Task 2 Design and implementation of an assessment process to identify community needs and priorities

Task 3 Design and implementation of educational and communication strategies

We propose occupational and environmental health curricular offerings for the two specific targeted groups: health care providers and community residents/leaders.

Curricular offerings will likely include for Primary Care Providers and HCC Staff: Occupational Health, Environmental Health, Industrial Hygiene, Environmental and Occupational History Taking, Epidemiology, Biostatistics, Occupational Injury and safety, AOEC modules, adapted for use including Lead, Basic Risk Assessment, Pediatric Environmental health history, Occupational health and the heart, Occupational Asthma, etc.

For Community Leaders and residents: Community-based participatory research principles, Basic Research Concepts, Research Ethics and Informed Consent, Health, Basic Environmental and Occupational Health, Community Health Assessment, Occupational safety and injury

Task 4 Research Agenda

Because data about health and contamination are both incomplete, one of the primary focuses of the partnership must be to develop a research agenda that gathers all existing data—much of this is anecdotal, kept in private homes, and none of it is archived—catalogs it, then identifies gaps and works to fill them. To do this, the partnership will develop a data base at the CHC for research. This will include exposure assessments past and present, a community health profile for Spartanburg, and descriptive epidemiology and study of disease clusters. We will also have to do some biomonitoring—specifically of such bioindicators as watershed, amphibians, and small mammals—because some contamination may still exist since the landfill has not yet been capped.

We propose that the ReGenesis Partnership continue already established participatory research projects underway in communities in Spartanburg, SC. Our plan is to strengthen the infrastructural and organizational requirements for the operation of a community environmental health response team which will improve research quality and relevance and maintain the community outreach that will engender community participation at all levels of the research process. The community and scientist partners have developed and are implementing an outcome-based research agenda focusing on targeted geographic areas. The research teams we hope to build will consist of investigators and staff from USC, DHEC and ReGenesis, and an active steering committee with working groups for each community-based study.

Task 5 Evaluate the participatory process and reaching learning and research objectives

- Goal-1: Formation of the Evaluation Committee.
- Goal-2: Design of the Project Evaluation, Tracking and Reporting System
- Goal-3: Implement the Project Evaluation, Tracking and Reporting System -
- Goal-4: Production and Dissemination of Quarterly and Annual Evaluation Reports

Task 6 Future Activities

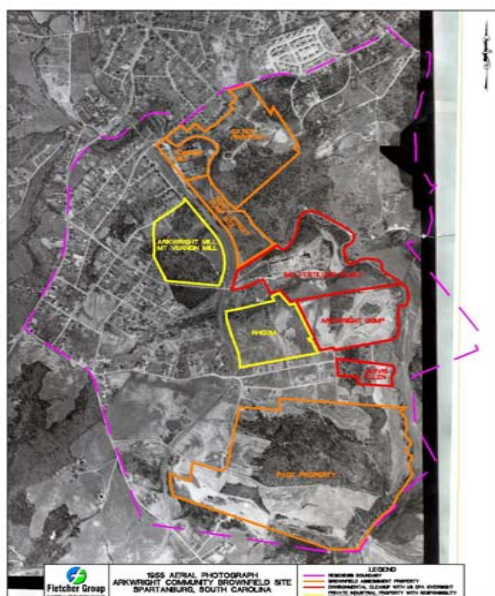
The initiatives generated by this project will be critical and instrumental in the planning and implementation of an Environmental Health Center that is part of the long-range master plan of the Arnold School of Public Health and of a Center for Applied Ecocumanology at USC Spartanburg.

Other future activities of the partnership must be to move the resources of the project to address the problems we identify and to empower the community to address those problems. The empowerment is part of the recovery, and the recovery could never be complete were the community not empowered by this process.

The research and educational agenda outlined in this project will expand and build on areas where initial work has been done:

- 1) Engaging and involving community leaders and representatives concerned with pollution from toxic waste sites, the point sources of pollution, and occupational settings
- 2) health and environment issues in the African-American communities with emphasis on morbidity, developmental disorders and mortality from chronic disease.

Educational programs will target two groups: 1) The entire staff of the ReGenesis HCC and community practitioners and 2) Community leaders and representatives. The partnership is unique in SC, because it will explore the means to ensure that citizens' knowledge of their own problems is validated in the scientific process through their participation in that process. Because of the inherent connection between inquiry, education and action, the ReGenesis Community Health Partnership will thus also contribute to the public understanding of science and risk, to the making of good environmental policies, to the taking of effective individual action, and to social change.



UNIVERSITY OF SOUTH CAROLINA

Job Training

Community Involvement, Self-Sufficiency, and Workforce Development



Asbestos Abatement Training 2004



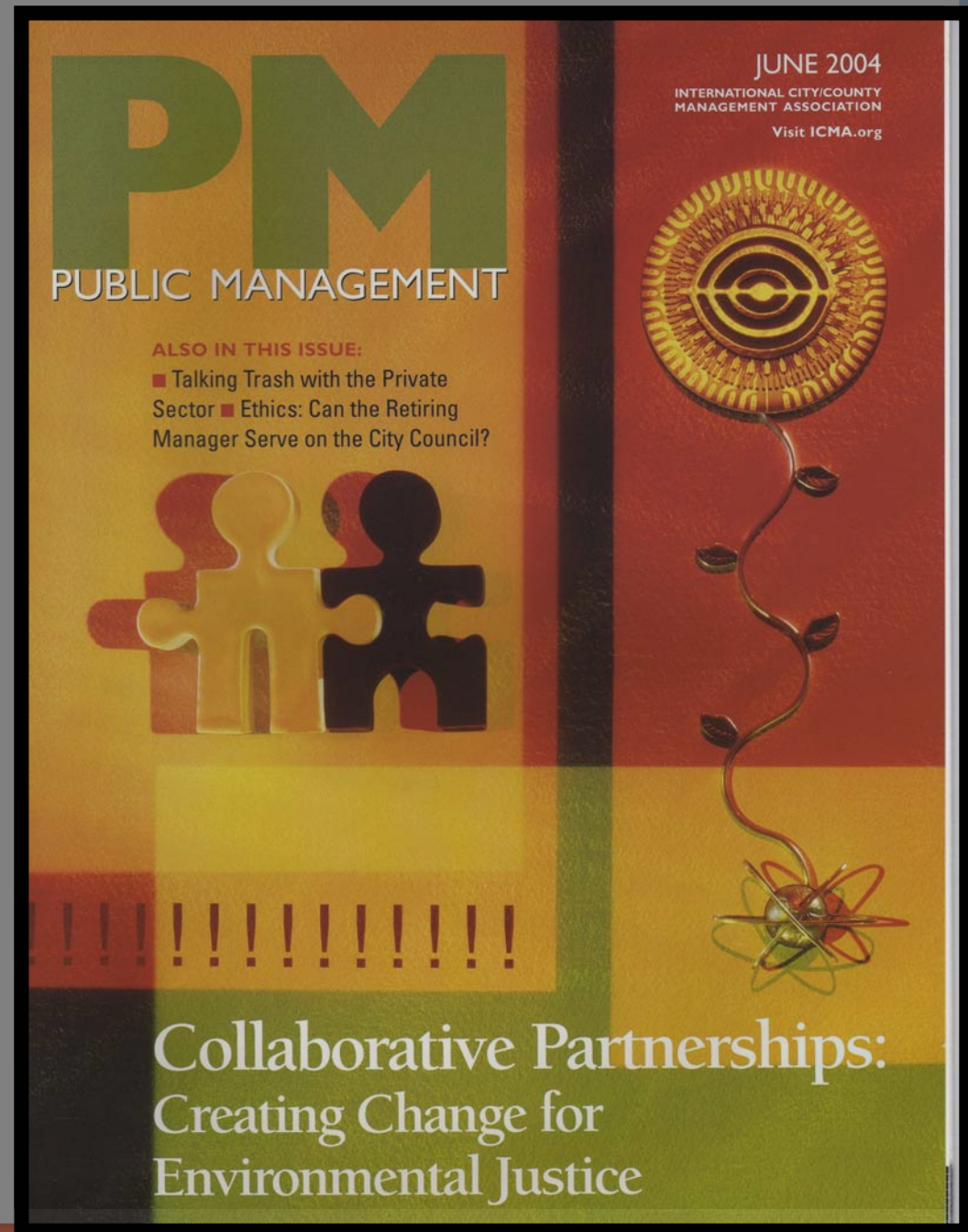
Construction Training 2005



Construction Training: Residential Carpentry 2007 is in progress

**Future curriculum planning is expanding and will
include certification in lead-based paint restorations**

Collaborative Partnerships





A PUBLICATION OF
ICMA'S BROWNFIELDS
PROGRAM

NOT Business as Usual: Using Collaborative Partnerships to Address Environmental Justice Issues



Environmental Justice: The GLOBAL issue:



South African Delegation visits Spartanburg, South Carolina, to tour the Arkwright community and learn about Environmental Injustice

Public Policy

H3933

SC Environmental Justice Bill passed into law June 13, 2007

H3509

Local Housing Trust Fund Enabling Act

Session 117 (2007) - H 4028

**Summary: Electronic prescription processing
H 4028 General Bill**



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